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FIG. 1A

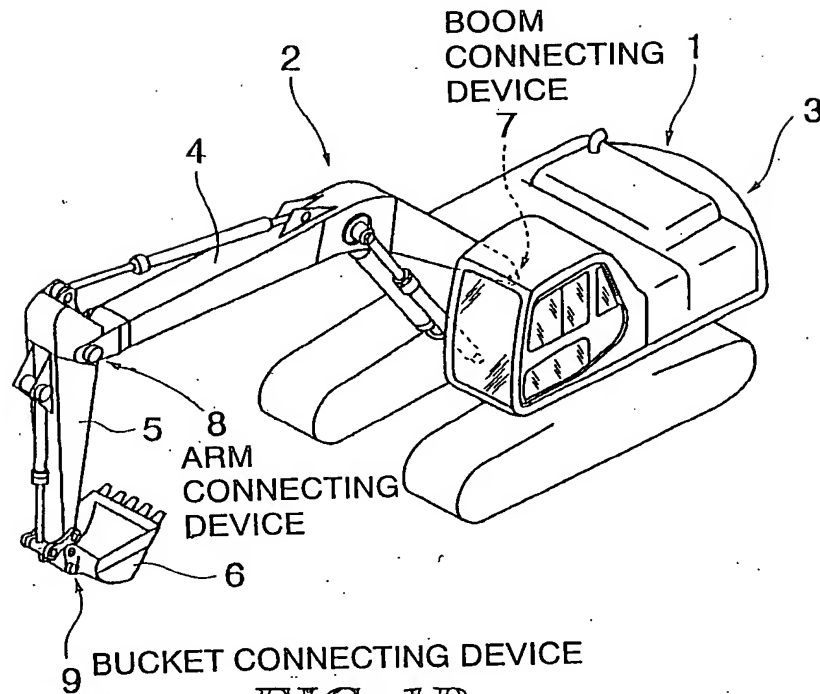


FIG. 1B

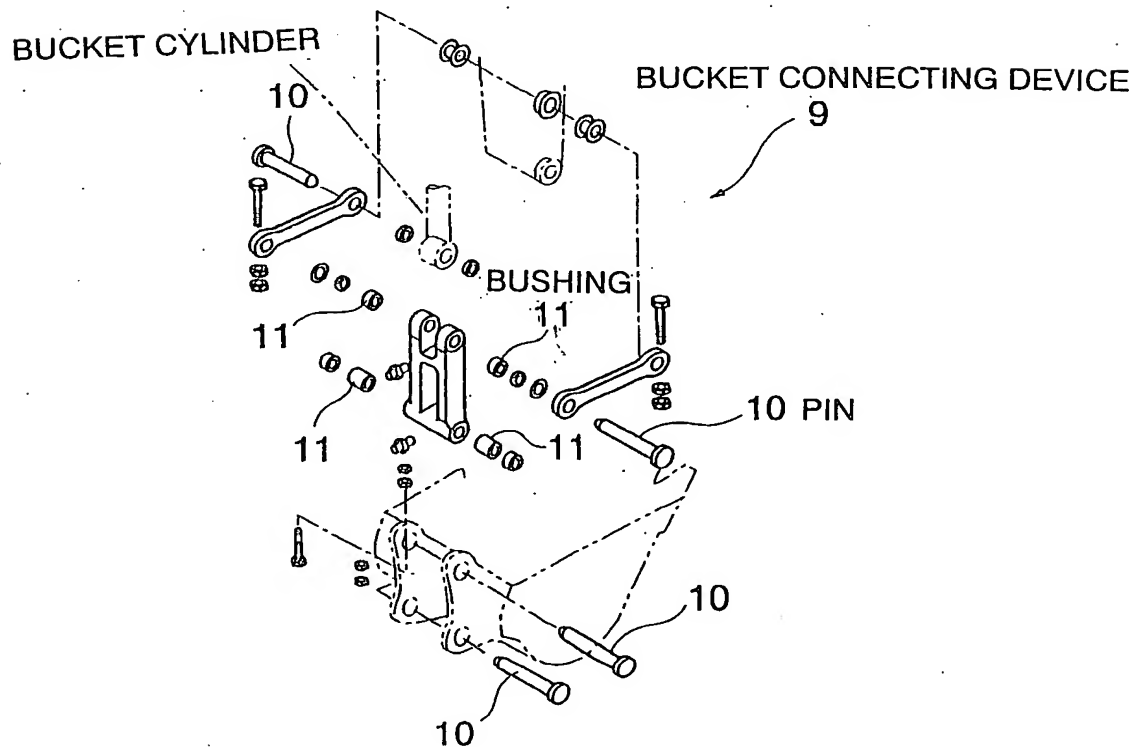
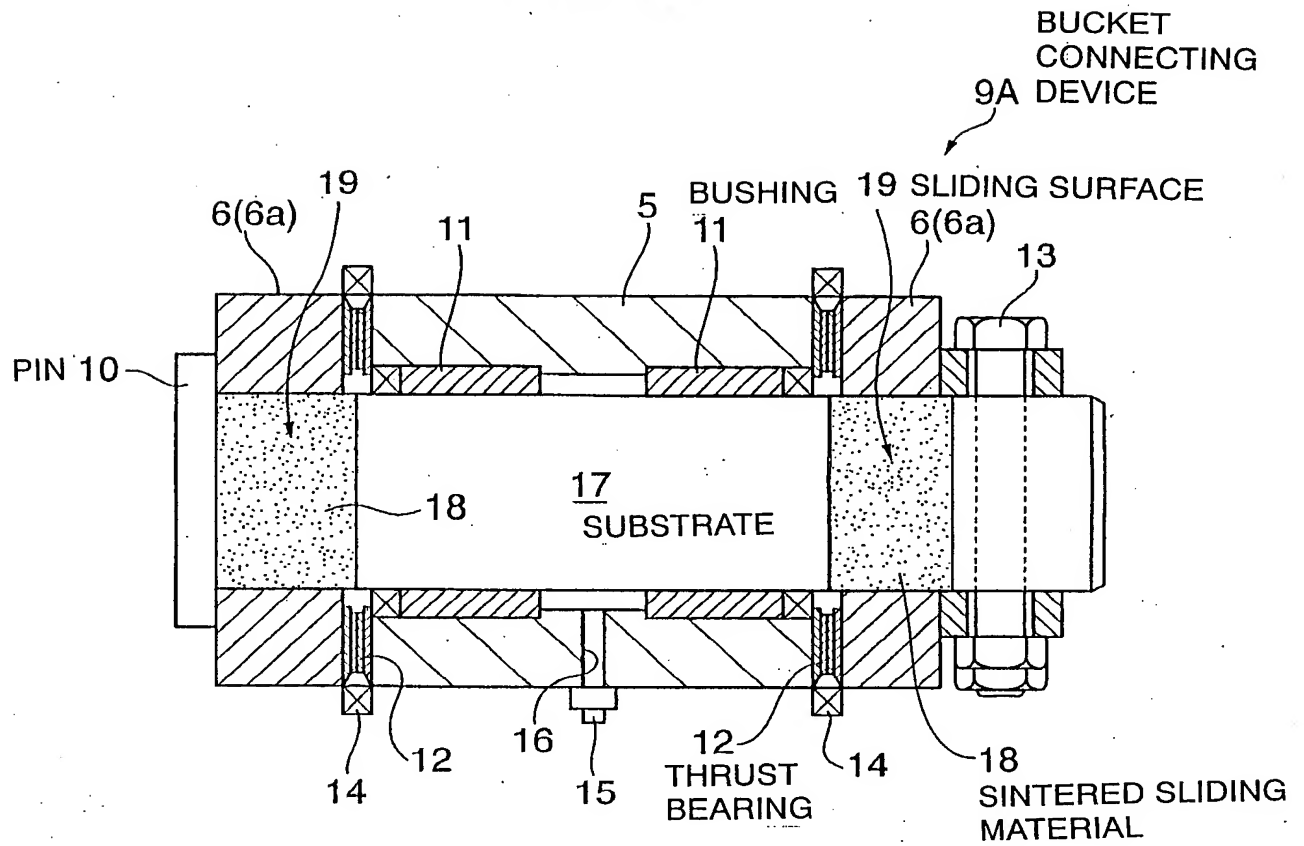


FIG. 2



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FIG. 3A

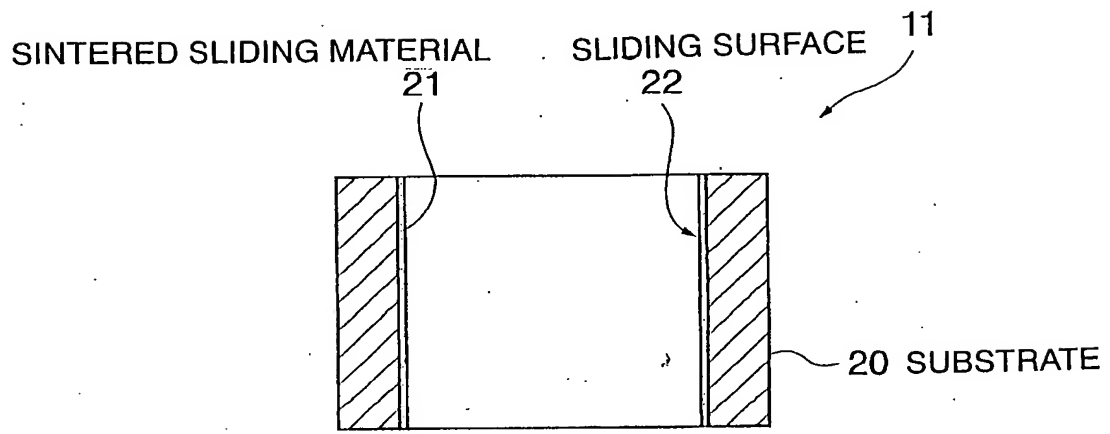


FIG. 3B

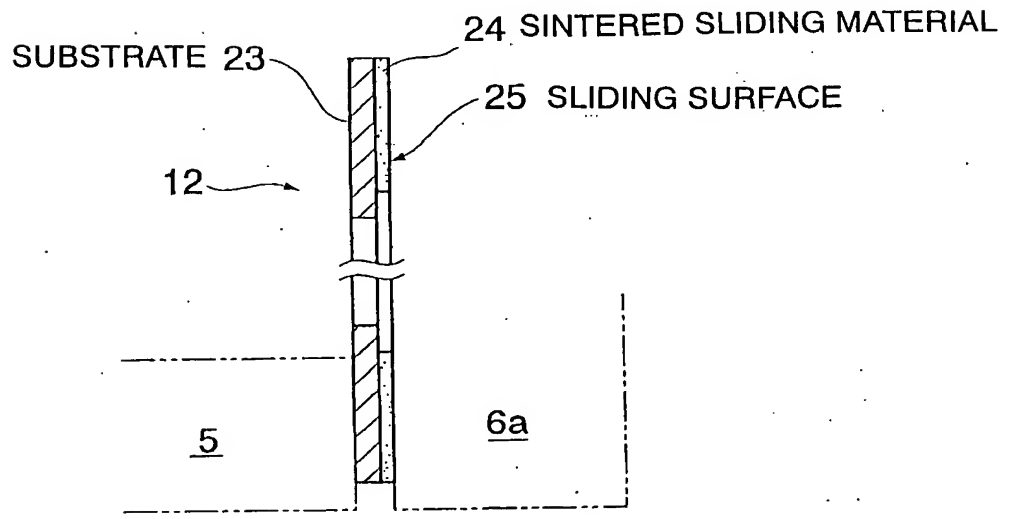
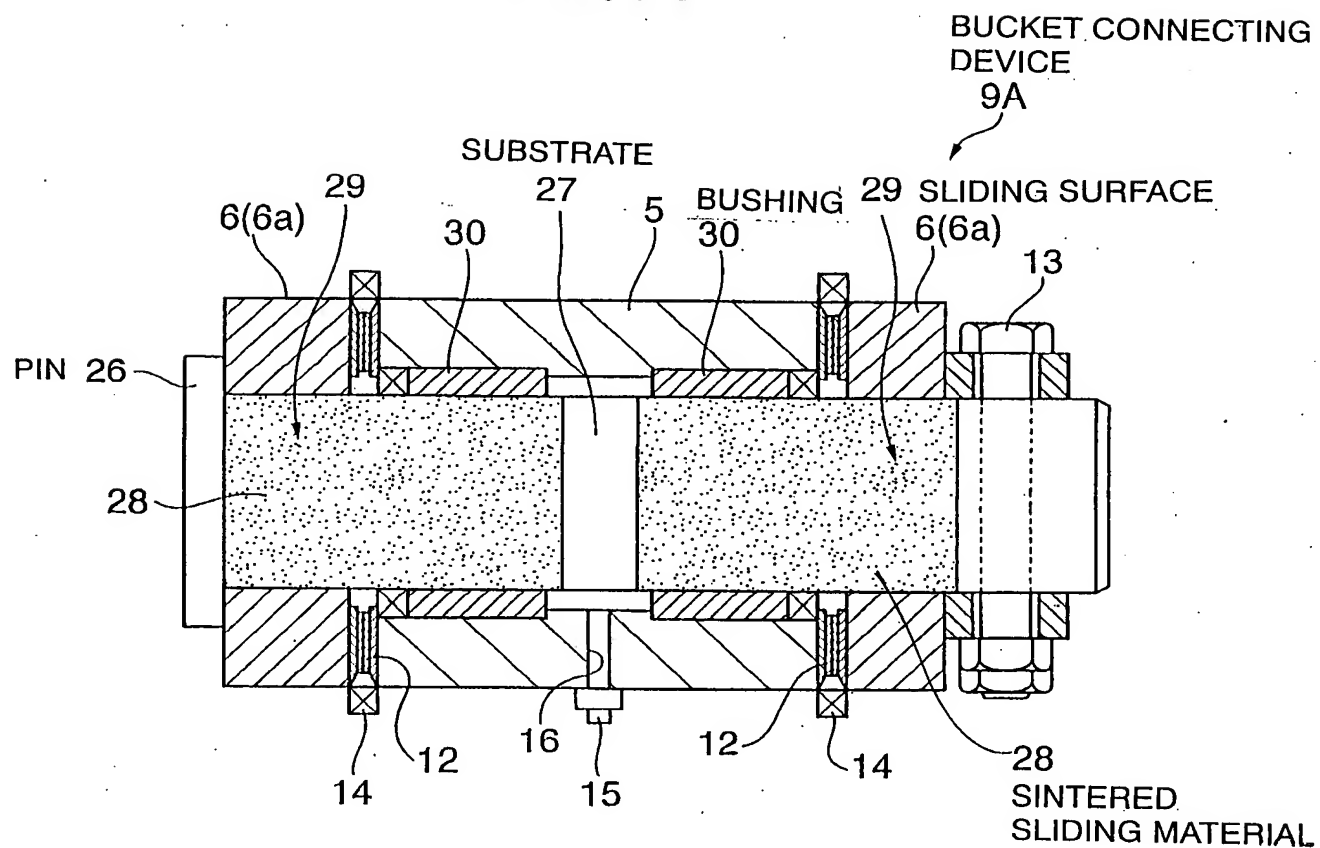


FIG. 4



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FIG. 5A

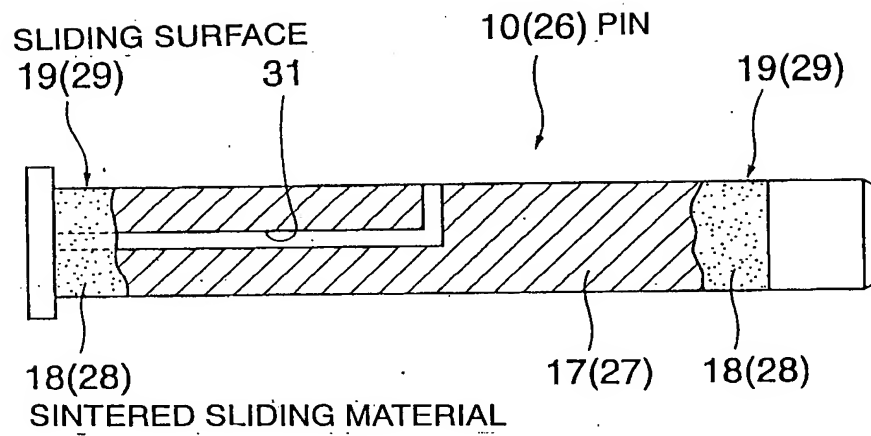
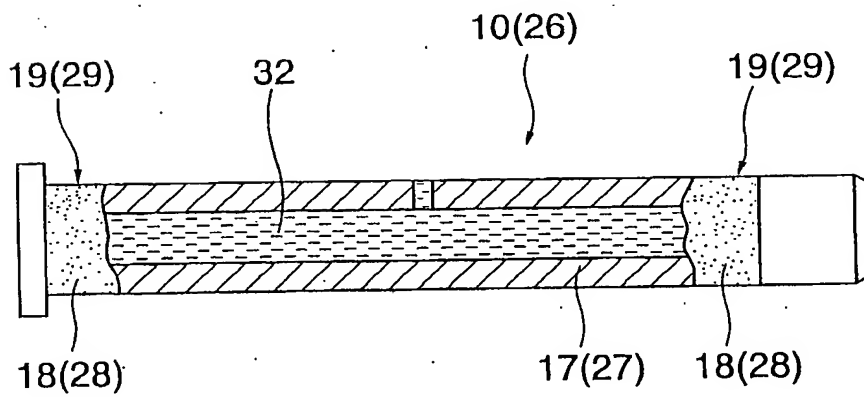


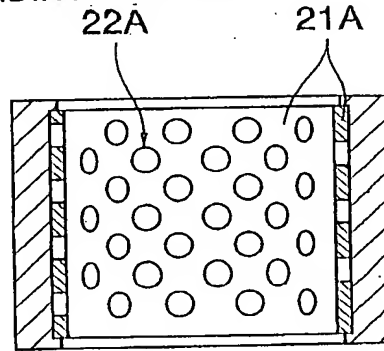
FIG. 5B



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FIG. 6A

SLIDING SURFACE



11A SINTERED SLIDING MATERIAL

20A
SUBSTRATE
(BACK METAL)

FIG. 6D

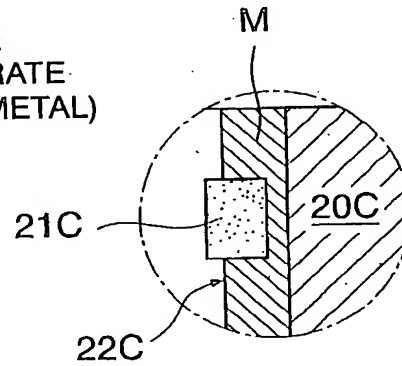
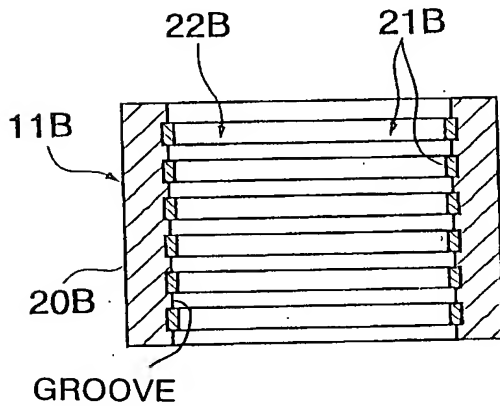


FIG. 6B



GROOVE

FIG. 6D'

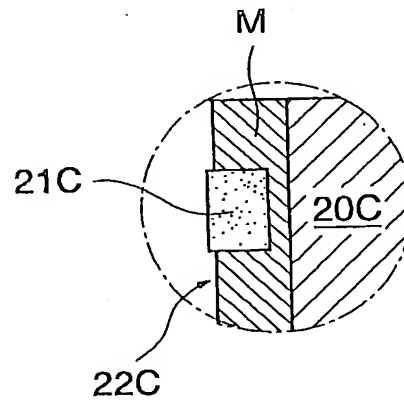
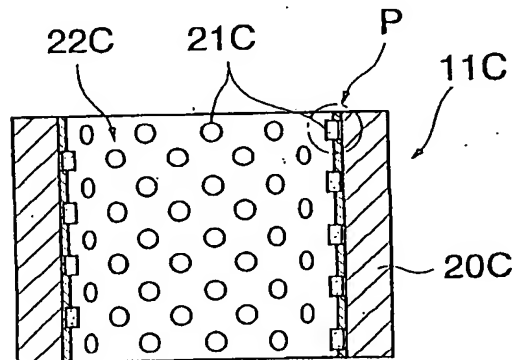


FIG. 6C



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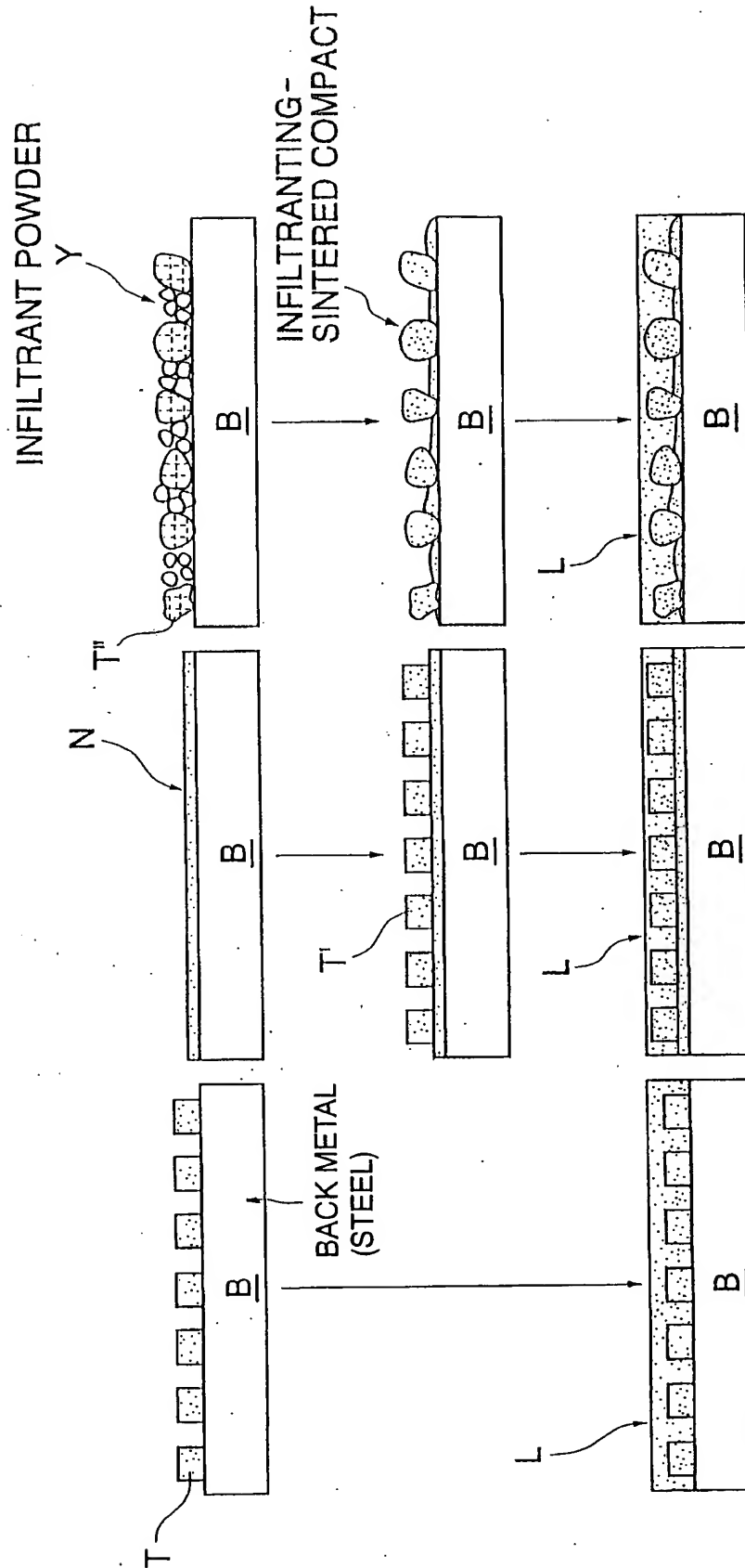


FIG. 7C

FIG. 7B

FIG. 7A

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FIG. 8A

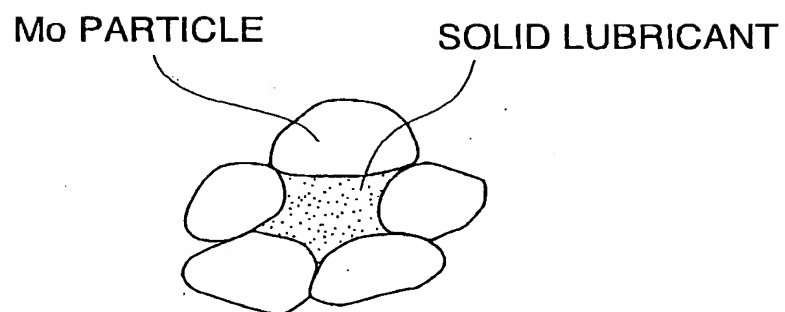
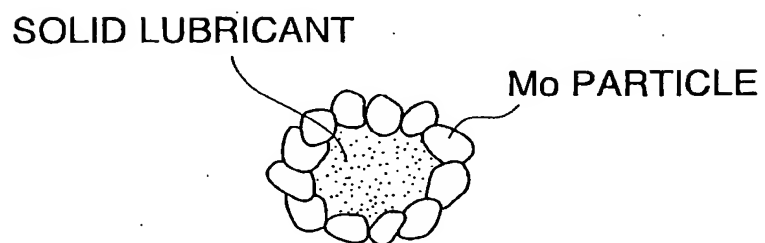


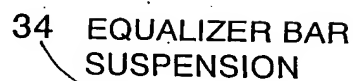
FIG. 8B



▲



ENGINE



ENGINE

1 FRAME

44 BAR

43
BUSHING

42 PIN

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FIG. 10A

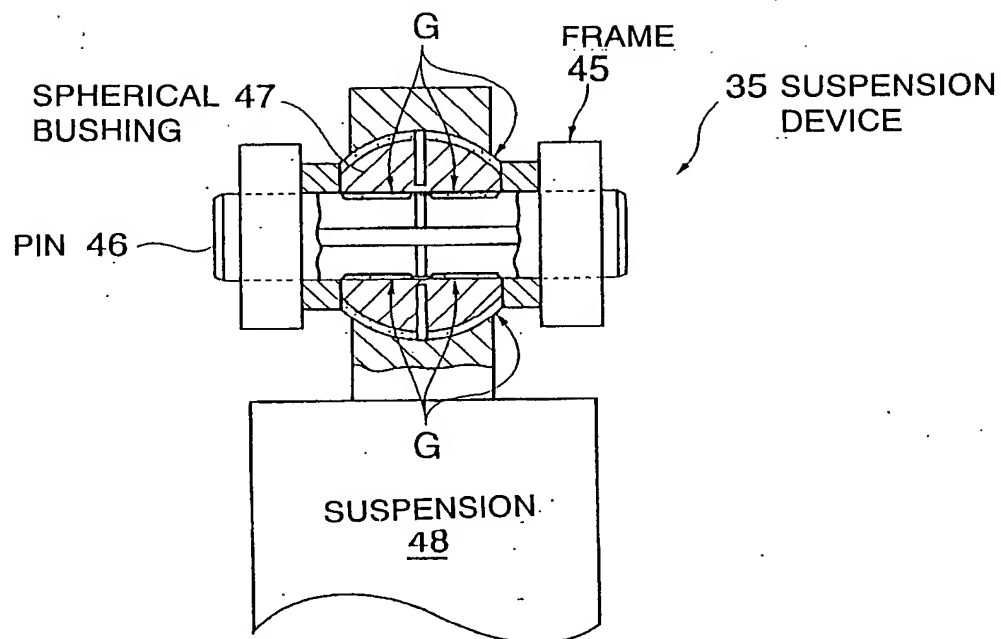
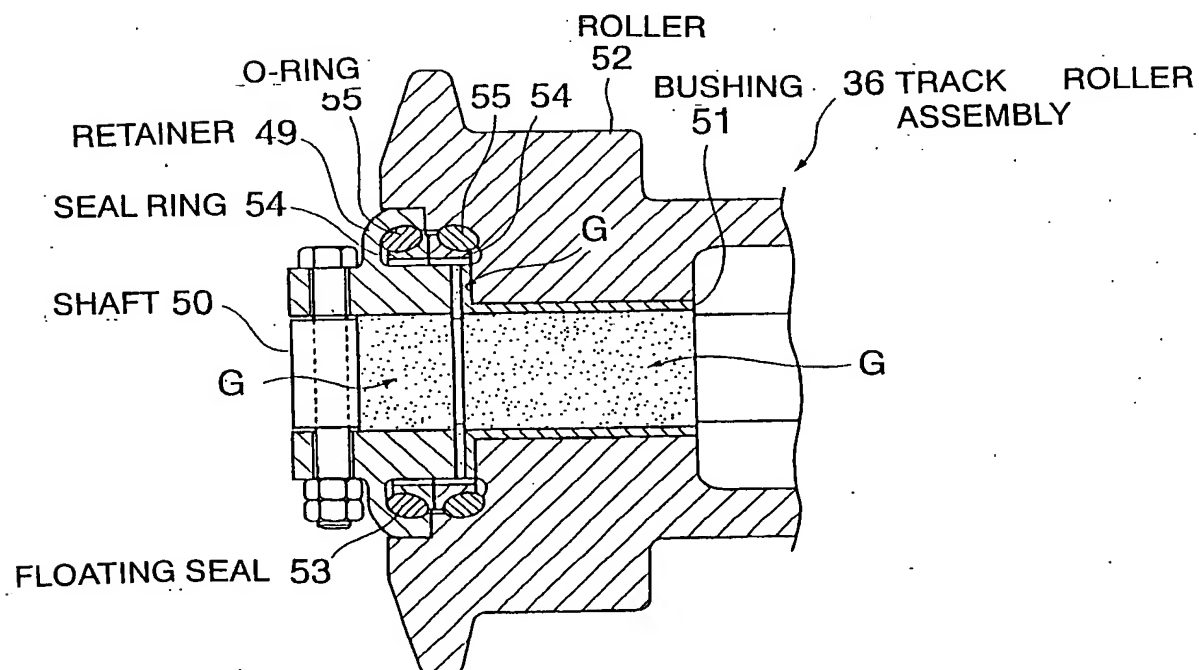


FIG. 10B



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FIG. 11A

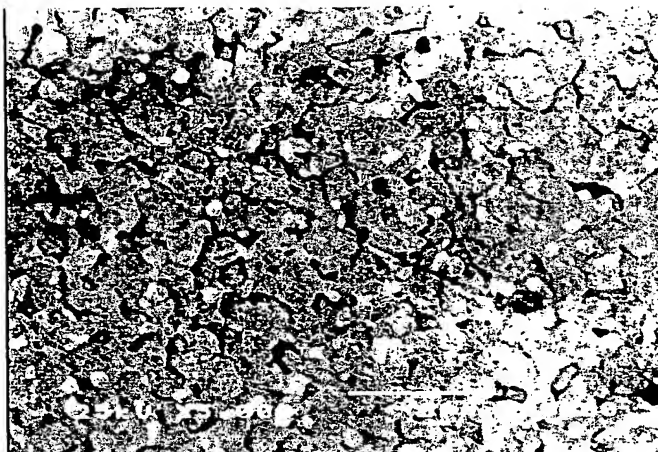


FIG. 11B

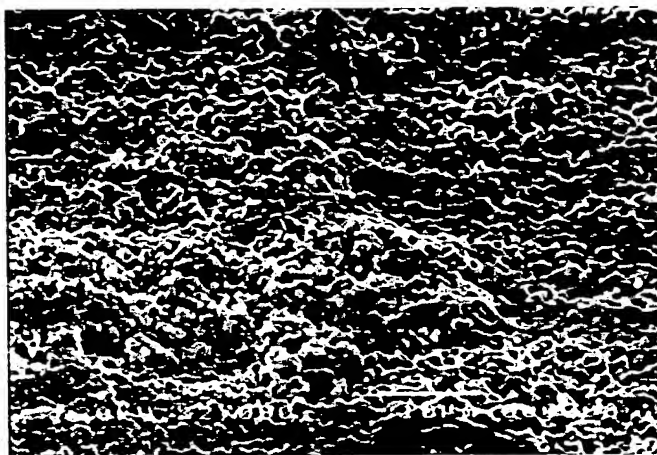
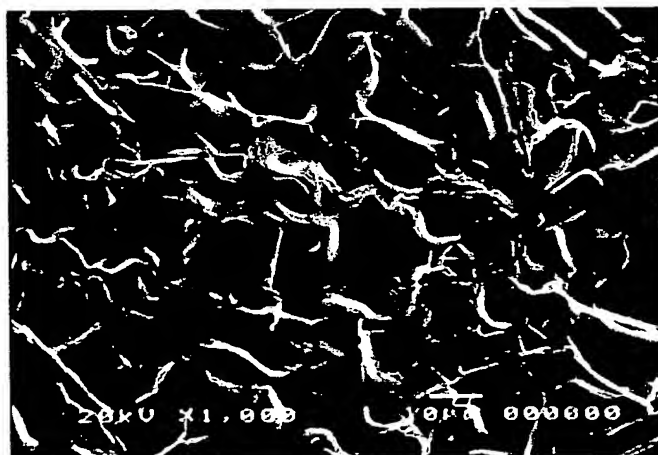
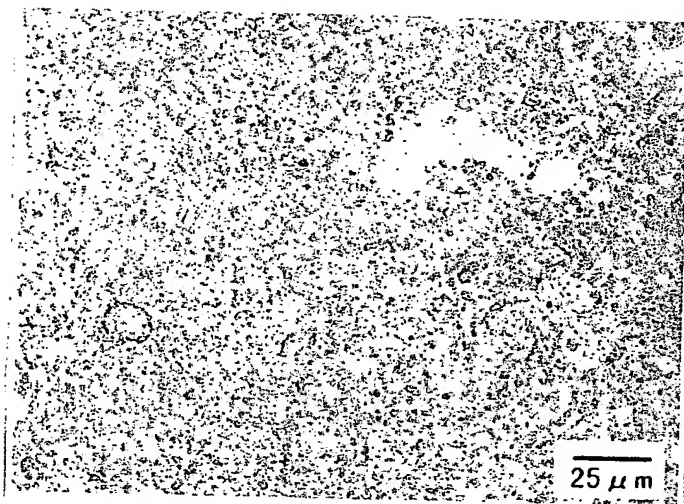
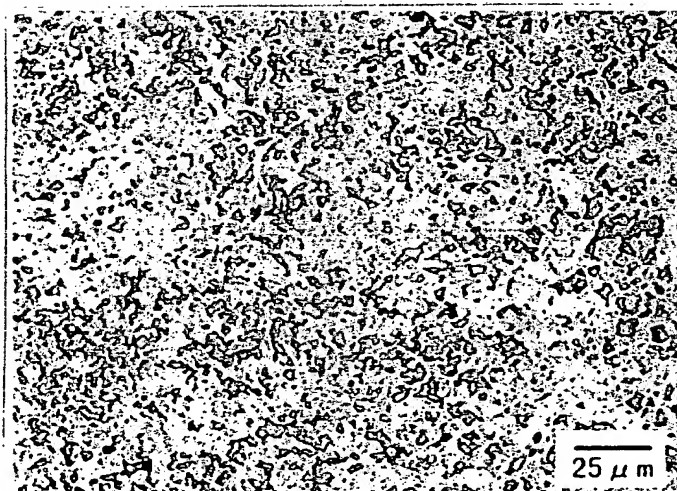


FIG. 11C



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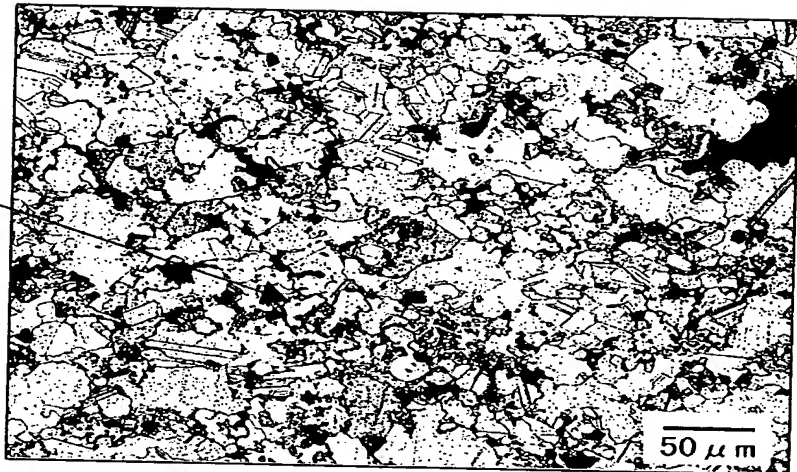
FIG. 12A**FIG. 12B**

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FIG. 13A

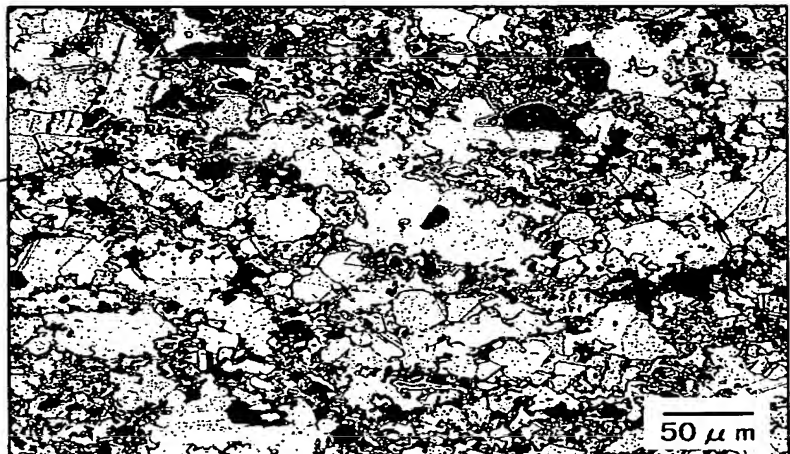
Mo PARTICLE

Hv120

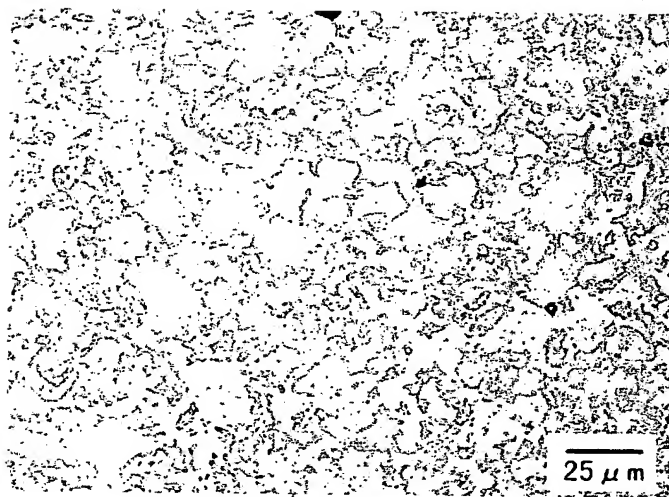
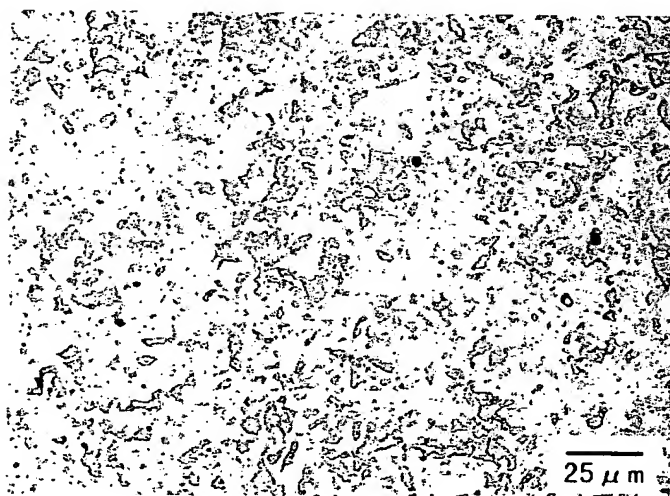
**FIG. 13B**

Mo PARTICLE

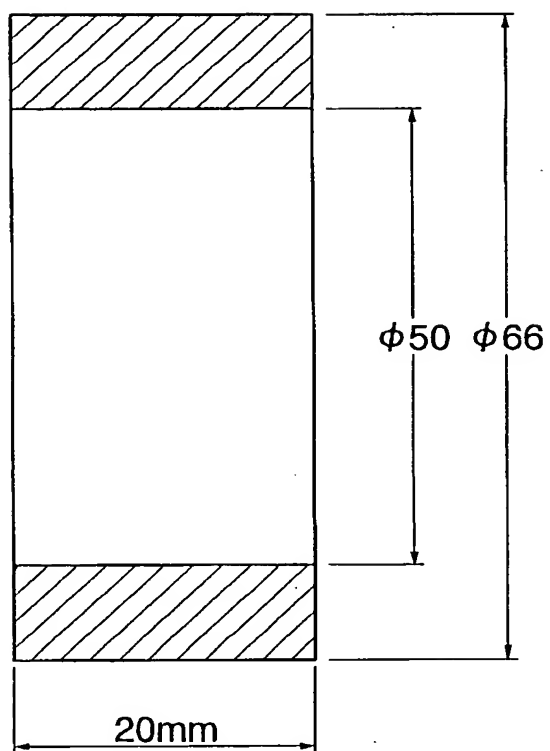
Hv145



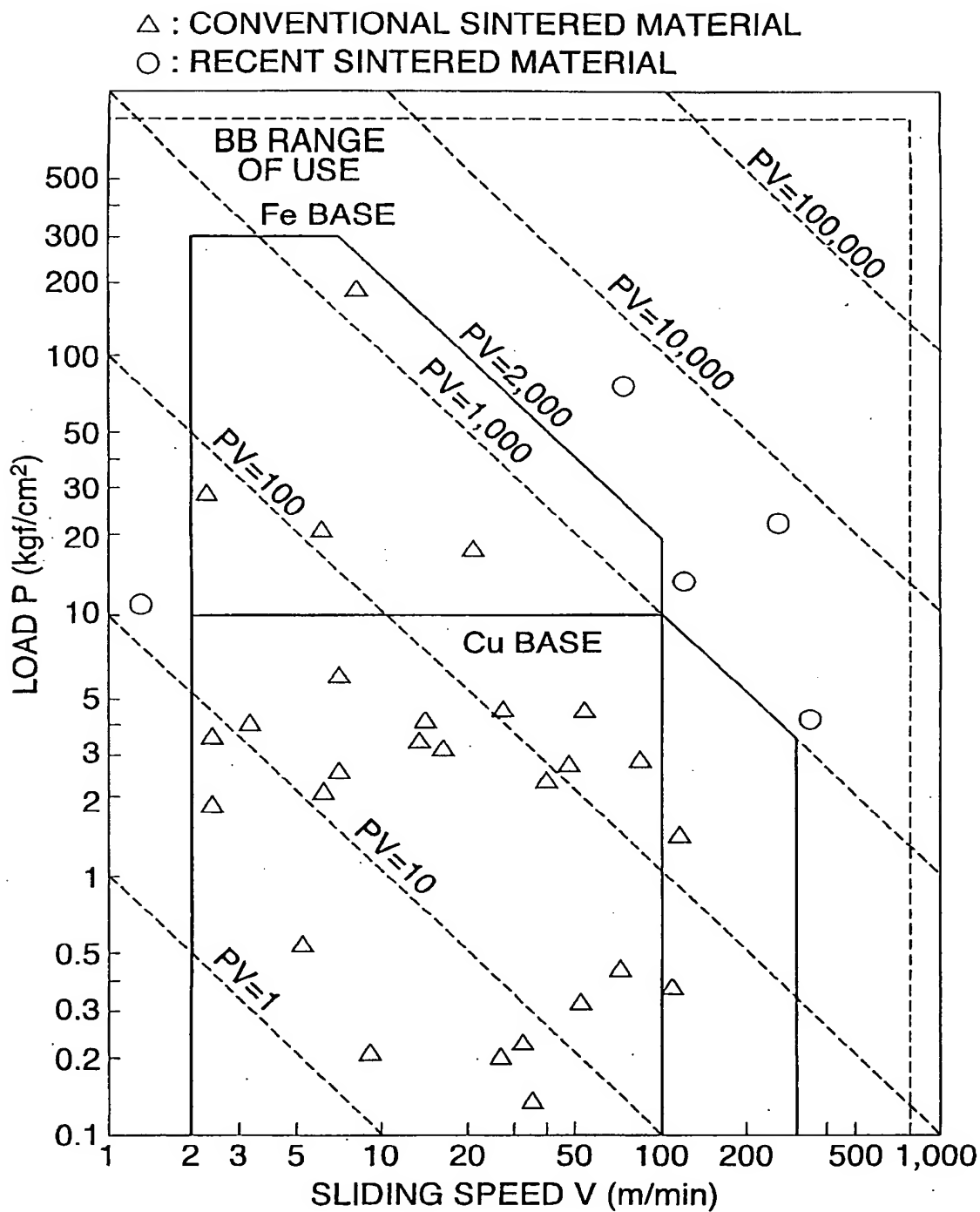
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FIG. 14A**FIG. 14B**

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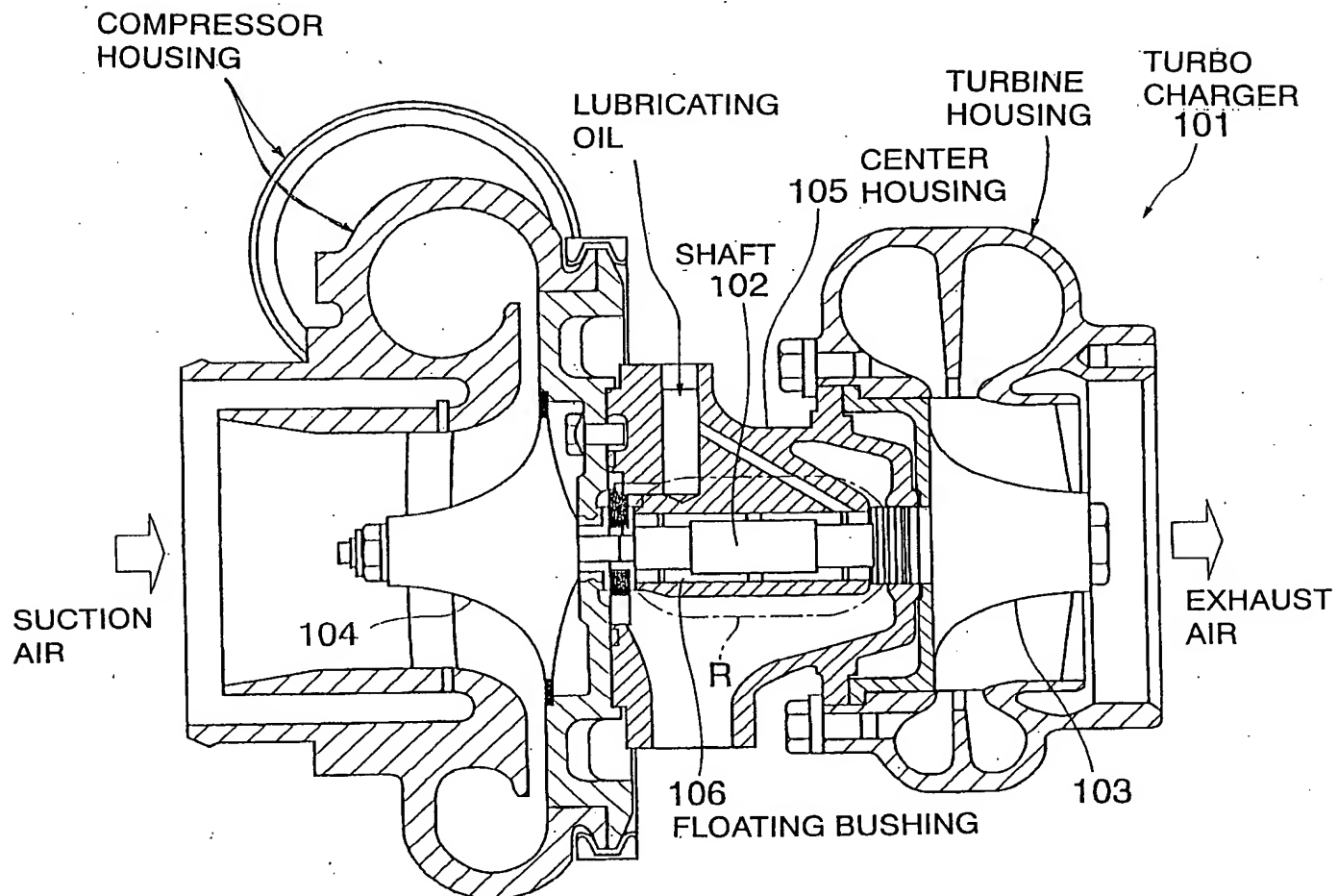
FIG. 15

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FIG. 16

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FIG. 17



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FIG. 18A

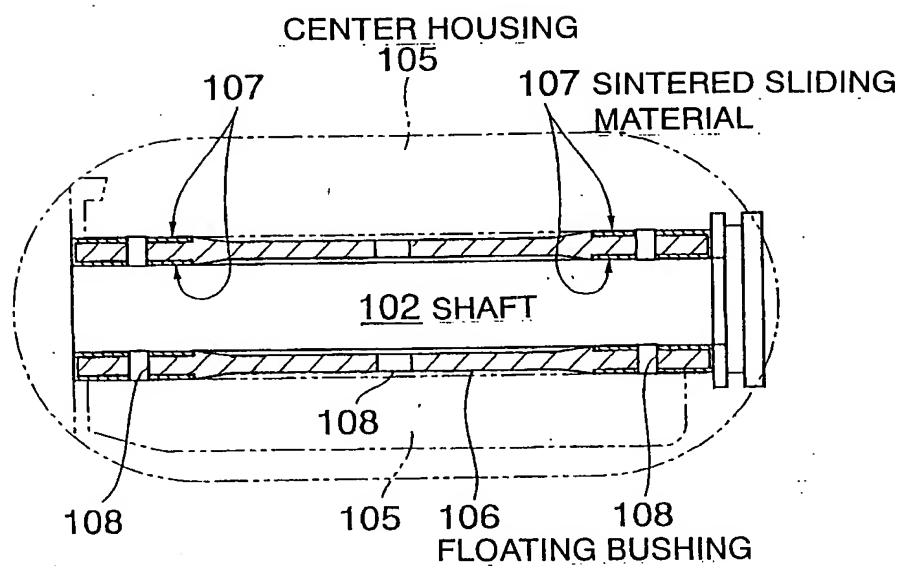
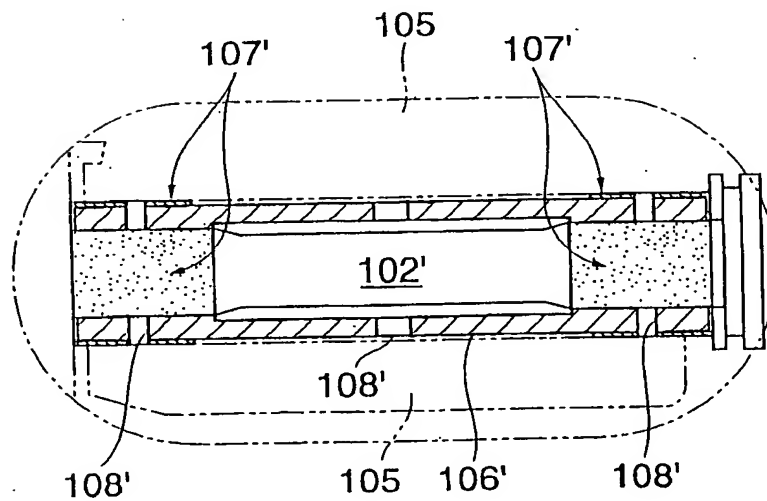


FIG. 18B



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FIG. 19A

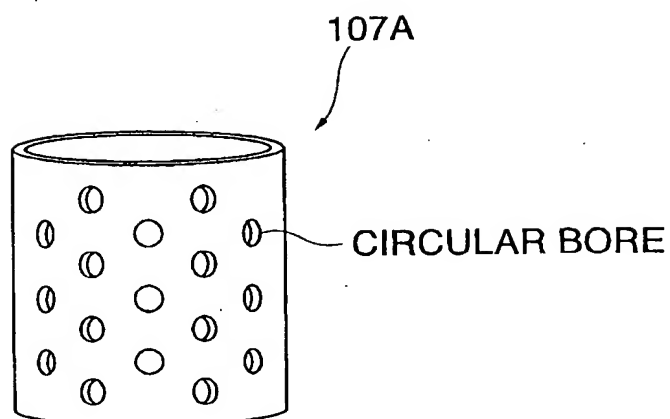


FIG. 19B

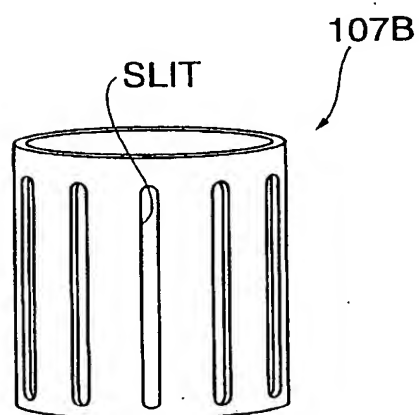


FIG. 20



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FIG. 21A

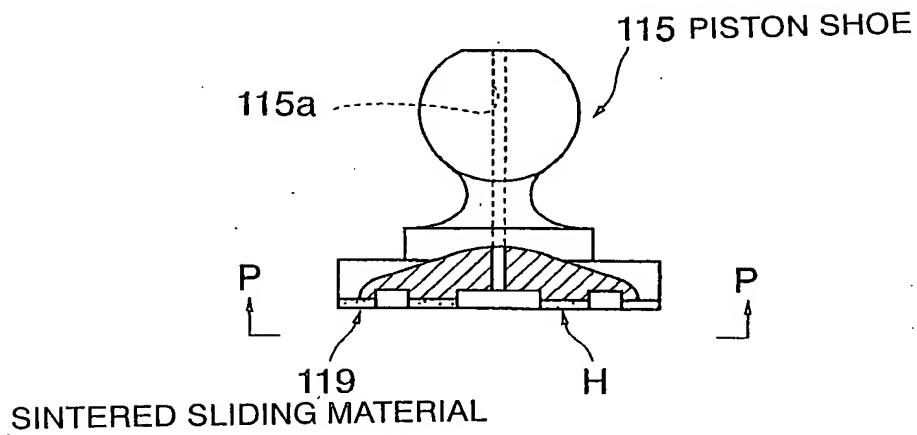


FIG. 21B

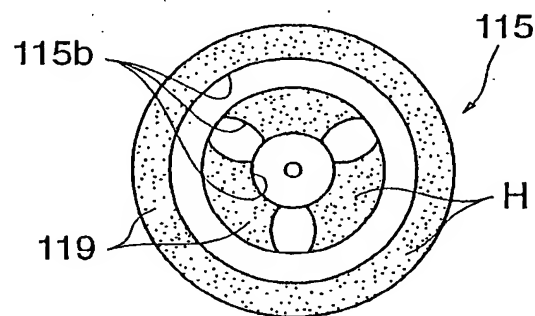
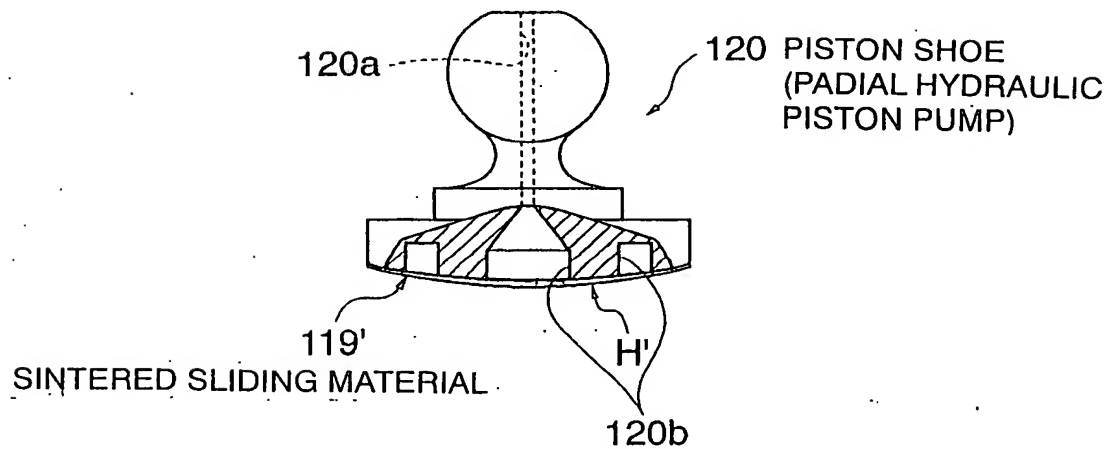
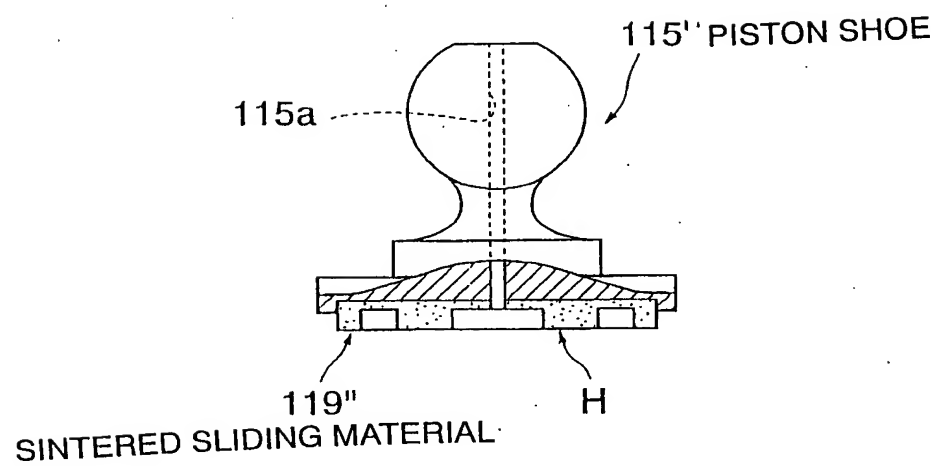


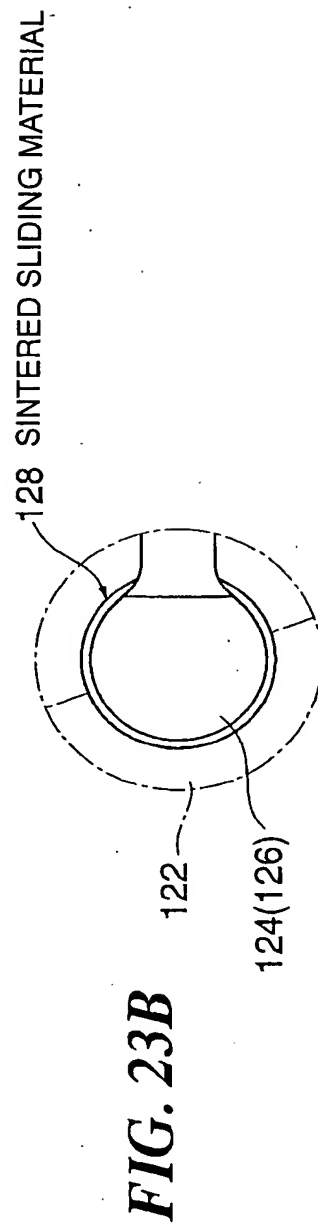
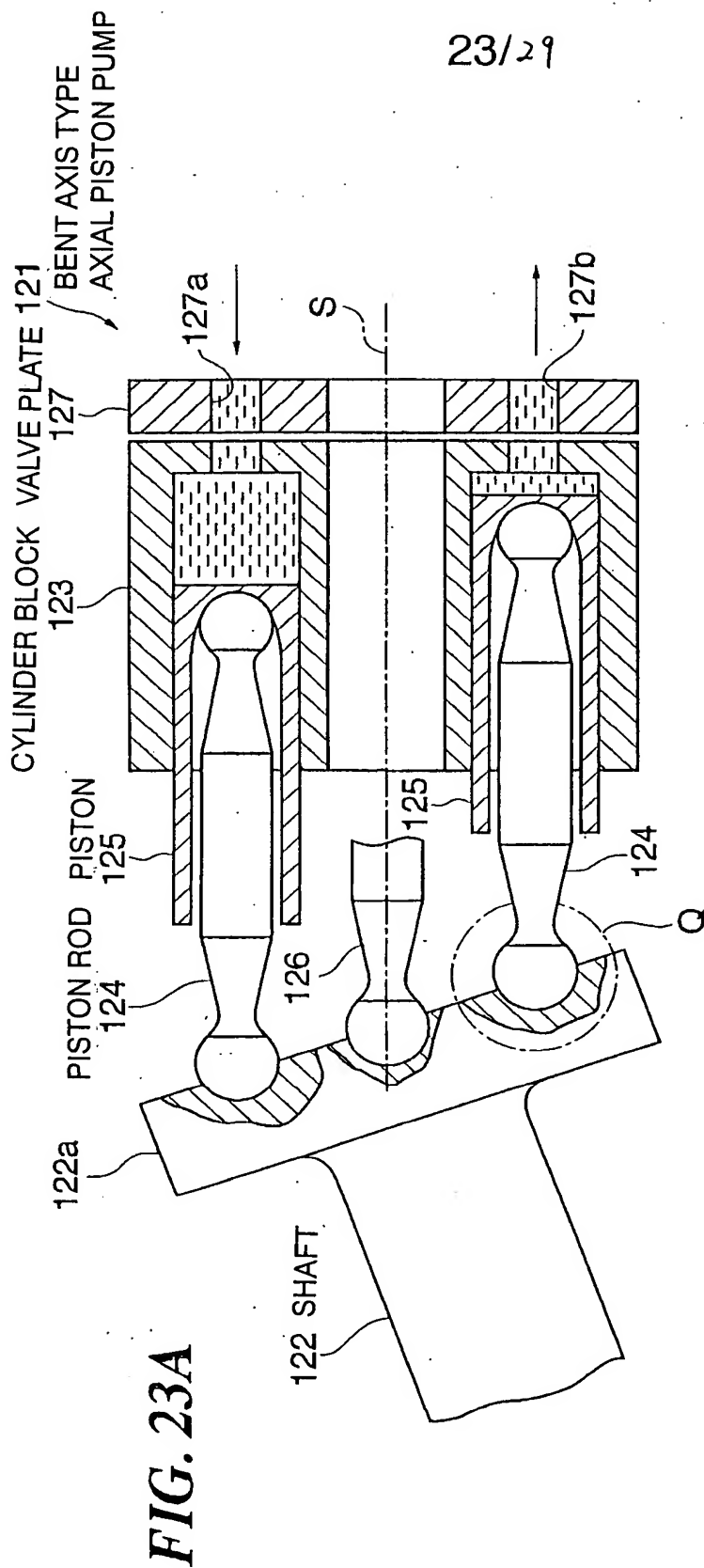
FIG. 21C



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FIG. 22

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FIG. 24A



FIG. 24B

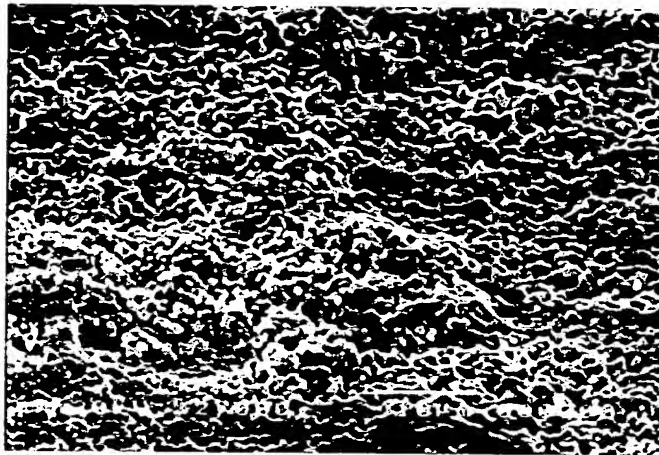
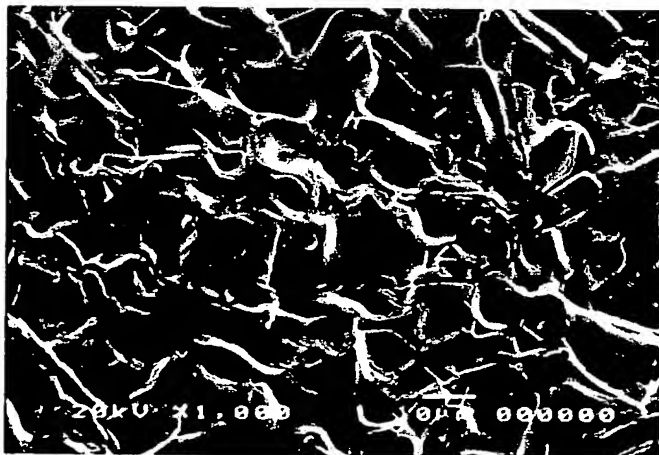
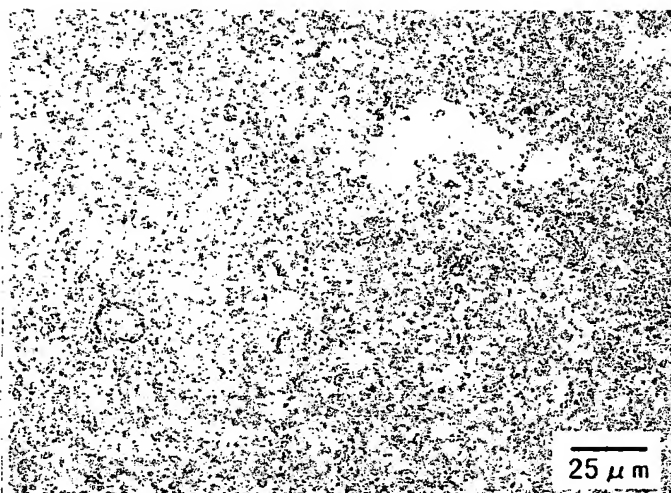
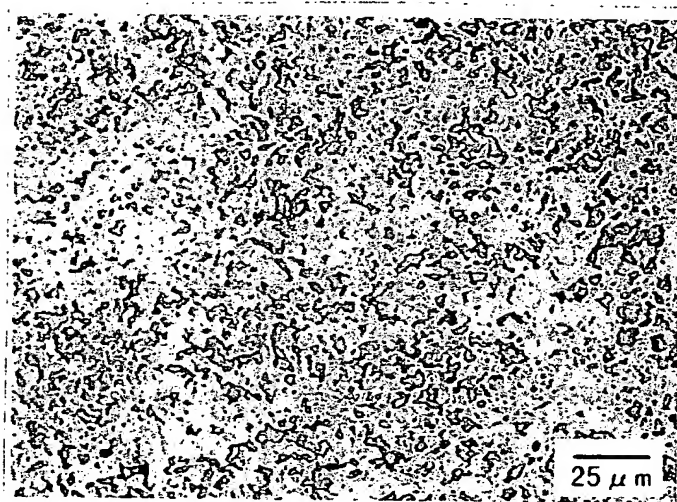


FIG. 24C



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FIG. 25A**FIG. 25B**

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Mo PARTICLE
FIG. 26A

Hv 120
DENSITY: 8.78 gr/cm³

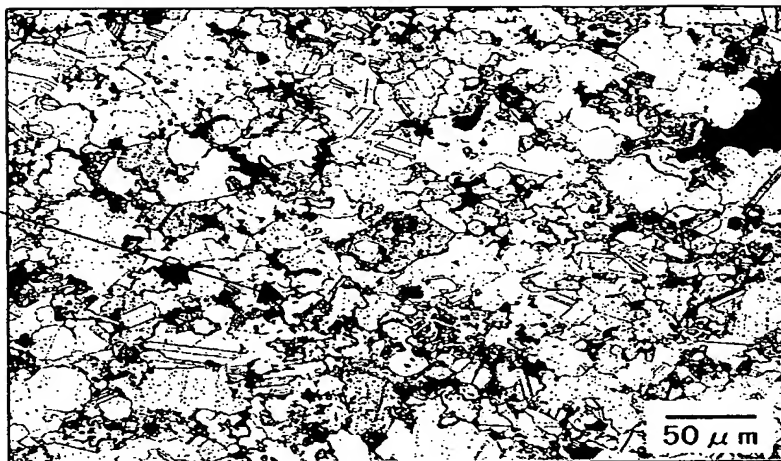
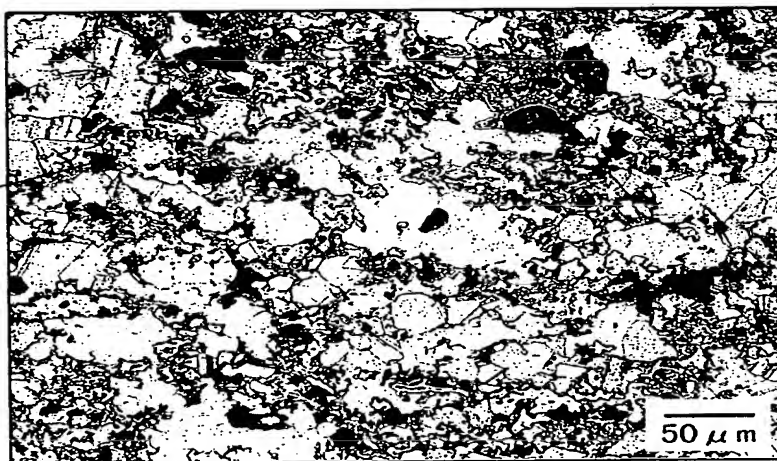


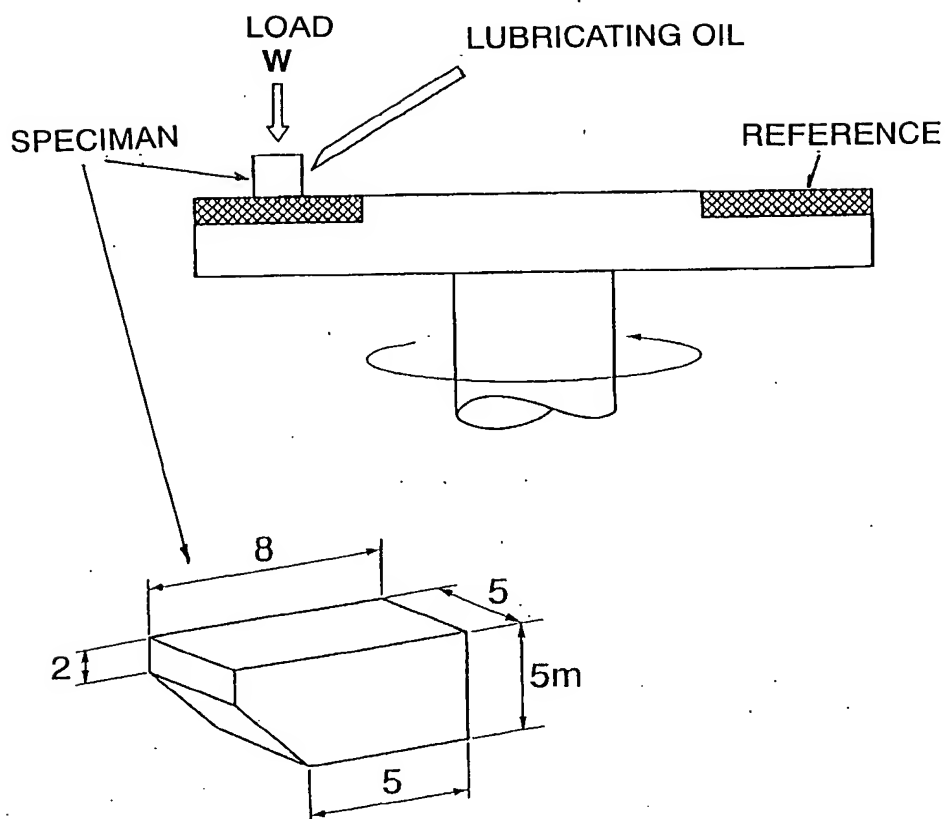
FIG. 26B

Mo PARTICLE

Hv 145
DENSITY: 8.84 gr/cm³

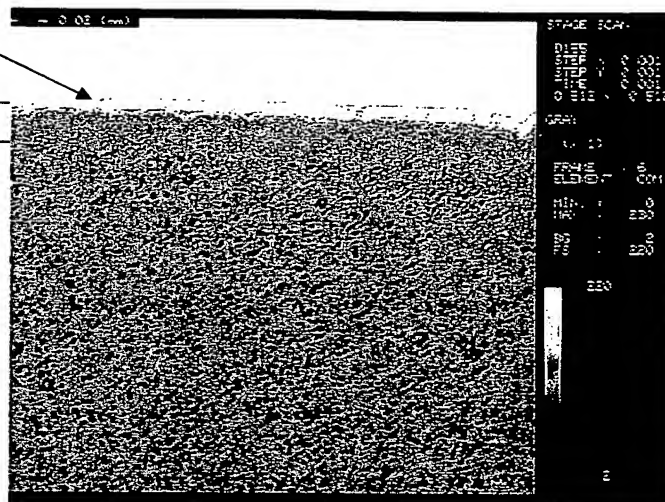


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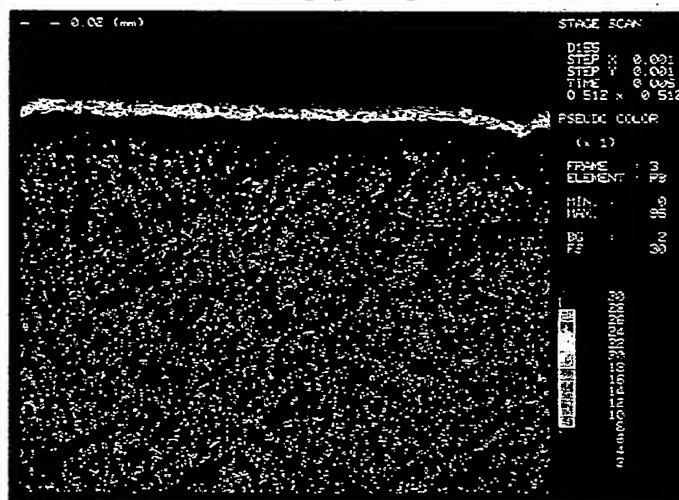
FIG. 27

CONDITION
REFERENCE : CARBURIZED AND QUENCHED SCM420
SURFACE HARDNESS: HRC60~62
SURFACE ROUGHNESS: UNDER 3S
LUBRICATING OIL: #E10
AMOUNT: 5cm³/min(DROP)
TEMPERATURE: 60°C
SLIDING SPEED: 10m/sec
BEARING STRESS: Max800kgf/cm²

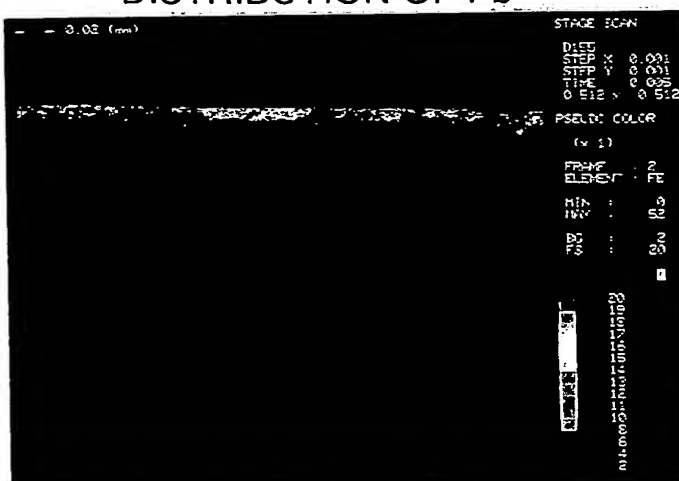
1992



COMPOSITION



DISTRIBUTION OF Pb



DISTRIBUTION OF Fe

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SLIDING SURFACE

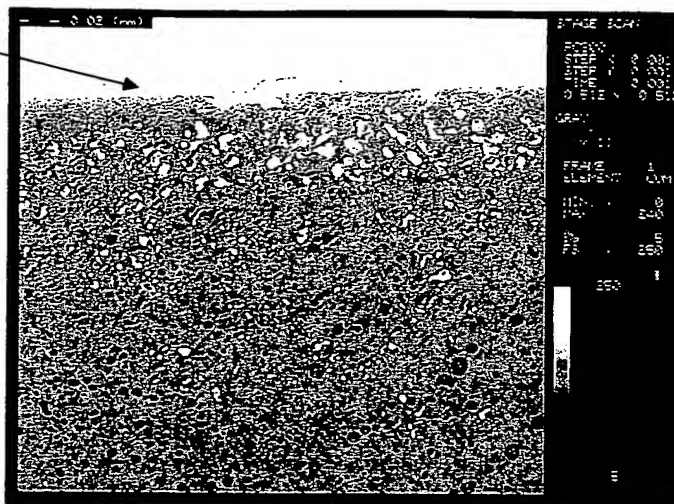


FIG. 29A

COMPOSITION

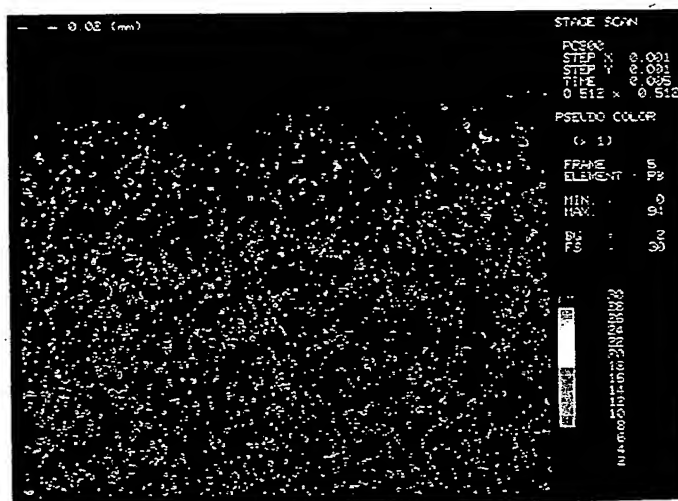


FIG. 29B

DISTRIBUTION OF Pb

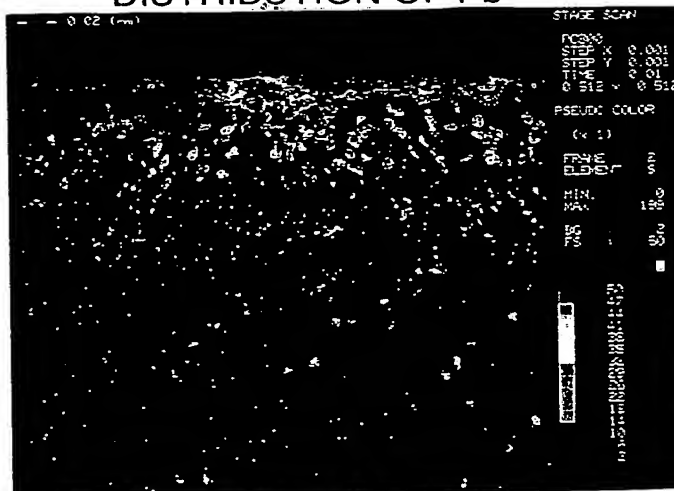


FIG. 29C

DISTRIBUTION OF S

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